PATENT ABSTRACTS OF JAPAN

(11)Publication number:

04-338916

(43) Date of publication of application: 26.11.1992

(51)Int.CI.

G02B 27/28

(21)Application number: 03-138496

(71)Applicant: KYOCERA CORP

(22)Date of filing:

14.05.1991

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(30)Priority

Priority number: 02208653

Priority date: 06.08.1990

Priority country: JP

02 84314

08.08.1990 13.08.1990

JP

02 85591 03 69010

08.03.1991

JP

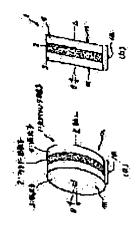
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(54) ELEMENT FOR OPTICAL ISOLATOR, OPTICAL ISOLATOR AND SEMICONDUCTOR LASER MODULE USING THE SAME ELEMENT

(57)Abstract:

PURPOSE: To prevent reflected light from returning to a light source and to reduce the number of components and facilitate the assembly.

CONSTITUTION: An element 1 for the optical isolator is constituted by adhering two flat plate type polarizers 3 and 4 on both surfaces of one flat plate type Faraday rotator 2 in one body. The outer peripheral surface 1a of the element 1 for the optical isolator is cut in a circumferential shape so that when the outer peripheral surface 1a is installed in parallel to an optical axis L, light incidence/projection surfaces (m) and (n) of the element 1 for the optical isolator slant by a specific angle θ from a position perpendicular to the optical axis L. The element 1 for the optical isolator is only put in a cylindrical magnet which has an inner peripheral surface almost in the same shape with the outer peripheral surface of the element 1 and then the light incidence/projection surfaces (m) and (n) of the element 1 for the optical isolator slant by the specific angle θ from the position perpendicular to the optical axis L. The reflected



light from the element 1 for the optical isolator itself does not return to the light source and is removed without any special jig. Further, no special fixing jig is required to fix the element 1 for the